UNIVERSITY OF SOUTHAMPTON

Applying Gamification to Teaching Cyber Security

Ву

REECE BUCKLE

PROJECT SUPERVISOR: DR NAWFAL FADHEL

SECOND EXAMINER: TBA

A project progress report submitted for the award of BSc Computer Science

DEPARTMENT OF ELECTRONICS AND COMPUTER SCIENCE
NOVEMBER 2020

Abstract

To write near the end / later on

Statement of Originality

- I have read and understood the <u>ECS Academic Integrity</u> information and the University's <u>Academic Integrity Guidance for Students</u>.
- I am aware that failure to act in accordance with the <u>Regulations Governing Academic Integrity</u> may lead to the imposition of penalties which, for the most serious cases, may include termination of programme.
- I consent to the University copying and distributing any or all of my work in any form and using third parties (who may be based outside the EU/EEA) to verify whether my work contains plagiarised material, and for quality assurance purposes.

You must change the statements in the boxes if you do not agree with them.

We expect you to acknowledge all sources of information (e.g. ideas, algorithms, data) using citations. You must also put quotation marks around any sections of text that you have copied without paraphrasing. If any figures or tables have been taken or modified from another source, you must explain this in the caption <u>and</u> cite the original source.

I have acknowledged all sources, and identified any content taken from elsewhere.

If you have used any code (e.g. open-source code), reference designs, or similar resources that have been produced by anyone else, you must list them in the box below. In the report, you must explain what was used and how it relates to the work you have done.

I have not used any resources produced by anyone else.

You can consult with module teaching staff/demonstrators, but you should not show anyone else your work (this includes uploading your work to publicly-accessible repositories e.g. Github, unless expressly permitted by the module leader), or help them to do theirs. For individual assignments, we expect you to work on your own. For group assignments, we expect that you work only with your allocated group. You must get permission in writing from the module teaching staff before you seek outside assistance, e.g. a proofreading service, and declare it here.

I did all the work myself, or with my allocated group, and have not helped anyone else.

We expect that you have not fabricated, modified or distorted any data, evidence, references, experimental results, or other material used or presented in the report. You must clearly describe your experiments and how the results were obtained, and include all data, source code and/or designs (either in the report, or submitted as a separate file) so that your results could be reproduced.

The material in the report is genuine, and I have included all my data/code/designs.

We expect that you have not previously submitted any part of this work for another assessment. You must get permission in writing from the module teaching staff before re-using any of your previously submitted work for this assessment.

I have not submitted any part of this work for another assessment.

If your work involved research/studies (including surveys) on human participants, their cells or data, or on animals, you must have been granted ethical approval before the work was carried out, and any experiments must have followed these requirements. You must give details of this in the report, and list the ethical approval reference number(s) in the box below.

My work did not involve human participants, their cells or data, or animals.

ECS Statement of Originality Template, updated August 2018, Alex Weddell aiofficer@ecs.soton.ac.uk

Contents

1	Introduction	4
2	Literature Review & Research	5
3	Risk Assessment	6
4	Future Work & Goals	7
5	Gantt Chart Illustrating Plans & Progress	8
6	Bibliography	9
7	Appendix	10

1 Introduction

Introduction here, problem statement, hypothesis and research question Citation examples: Two items are cited: Bada & Nurse (2019) and Tioh et al. (2017),

2 Literature Review & Research

Write about lit review and findings here

3 Risk Assessment

Write a table of risks here

4 Future Work & Goals

Plans for second half/winter term

5 Gantt Chart Illustrating Plans & Progress

Import Gantt chart here and write about it

6 Bibliography

- Bada, M. & Nurse, J. R. (2019), 'Developing cybersecurity education and awareness programmes for small-and medium-sized enterprises (smes)', *Information & Computer Security*.
- Tioh, J.-N., Mina, M. & Jacobson, D. W. (2017), Cyber security training a survey of serious games in cyber security, *in* '2017 IEEE Frontiers in Education Conference (FIE)', IEEE, pp. 1–5.

7 Appendix

Stuff to add to Appendix